

<b>Project Title:</b>	Training Program in Environmental Toxicology
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Publication Title	Authors	Journal (Pub date)	Volume/Page	PubMed Link
"One-pot" syntheses of malondialdehyde adducts of nucleosides.	Szekely, Jozsef; Wang, Hao; Pepłowski, Katherine M; Knutson, Charles G; Marnett, Lawrence J; Rizzo, Carmelo J	Nucleosides & Nucleotides & Nucleic Acids (2008 Feb)	27 / 103-9	<a href="#">PubMed Citation</a>
2-Hydroxychromene-2-carboxylic acid isomerase: a kappa class glutathione transferase from <i>Pseudomonas</i> ...	Thompson, Lawrence C; Ladner, Jane E; Codreanu, Simona G; Harp, Joel; Gilliland, Gary L; Armstrong, Richard N	Biochemistry (2007 Jun 12)	46 / 6710-22	<a href="#">PubMed Citation</a>
A 1H NMR probe for mobility in the reactive center loops of serpins: spin-echo studies of native and ...	Hood, D B; Gettins, P	Biochemistry (1991 Sep 17)	30 / 9054-60	<a href="#">PubMed Citation</a>
A Catalytic Role for C-H/π Interactions in Base Excision Repair by <i>Bacillus cereus</i> DNA Glycosylase A ...	Parsons, Zachary D; Bland, Joshua M; Mullins, Elwood A; Eichman, Brandt F	J Am Chem Soc (2016 Sep 14)	138 / 11485-8	<a href="#">PubMed Citation</a>
A convenient assay for mephenytoin 4-hydroxylase activity of human liver microsomal cytochrome P-450 ...	Shimada, T; Shea, J P; Guengerich, F P	Anal Biochem (1985 May 15)	147 / 174-9	<a href="#">PubMed Citation</a>
A high-throughput fluorescence polarization anisotropy assay for the 70N domain of replication prote ...	Souza-Fagundes, Elaine M; Frank, Andreas O; Feldkamp, Michael D; Dorset, Daniel C; Chazin, Walter J; Rossanese, Olivia W; Olejniczak, Edward T; Fesik, Stephen W	Anal Biochem (2012 Feb 15)	421 / 742-9	<a href="#">PubMed Citation</a>

A highly sensitive method for analysis of 7-dehydrocholesterol for the study of Smith-Lemli-Opitz syndrome	Liu, Wei; Xu, Libin; Lamberson, Connor; Haas, Dorothea; Korade, Zeljka; Porter, Ned A	J Lipid Res (2014 Feb)	55 / 329-37	PubMed Citation
A model for glutathione binding and activation in the fosfomycin resistance protein, FosA.	Rigsby, Rachel E; Brown, Daniel W; Dawson, Eric; Lybrand, Terry P; Armstrong, Richard N	Arch Biochem Biophys (2007 Aug 15)	464 / 277-83	PubMed Citation
A New Family of HEAT-Like Repeat Proteins Lacking a Critical Substrate Recognition Motif Present in ...	Mullins, Elwood A; Shi, Rongxin; Kotsch, Lyle A; Eichman, Brandt F	PLoS One (2015)	10 / e0127733	PubMed Citation
A new protein architecture for processing alkylation damaged DNA: the crystal structure of DNA glycosylase...	Rubinson, Emily H; Metz, Audrey H; O'Quin, Jami; Eichman, Brandt F	J Mol Biol (2008 Aug 1)	381 / 13-23	PubMed Citation
A single chiroptical spectroscopic method may not be able to establish the absolute configurations of ...	Polavarapu, Prasad L; Donahue, Emily A; Shanmugam, Ganesh; Scalmani, Giovanni; Hawkins, Edward K; Rizzo, Carmelo; Ibnusaud, Ibrahim; Thomas, Grace; Habel, Deenamma; Sebastian, Dellamol	J Phys Chem A (2011 Jun 9)	115 / 5665-73	PubMed Citation
A structure-specific nucleic acid-binding domain conserved among DNA repair proteins.	Mason, Aaron C; Rambo, Robert P; Greer, Briana; Pritchett, Michael; Tainer, John A; Cortez, David; Eichman, Brandt F	Proc Natl Acad Sci U S A (2014 May 27)	111 / 7618-23	PubMed Citation
A whole genome RNAi screen identifies replication stress response genes.	Kavanaugh, Gina; Ye, Fei; Mohni, Kareem N; Luzwick, Jessica W; Glick, Gloria; Cortez, David	DNA Repair (Amst) (2015 Nov)	35 / 55-62	PubMed Citation
Activation of dihaloalkanes by glutathione conjugation and formation of DNA adducts.	Guengerich, F P; Peterson, L A; Cmarik, J L; Koga, N; Inskeep, P B	Environ Health Perspect (1987 Dec)	76 / 15-8	PubMed Citation

Alkylation damage by lipid electrophiles targets functional protein systems.	Codreanu, Simona G; Ullery, Jody C; Zhu, Jing; Tallman, Keri A; Beavers, William N; Porter, Ned A; Marnett, Lawrence J; Zhang, Bing; Liebler, Daniel C	Mol Cell Proteomics (2014 Mar)	13 / 849-59	PubMed Citation
Altered manganese homeostasis: implications for BLI-3-dependent dopaminergic neurodegeneration and S ...	Chakraborty, Sudipta; Aschner, Michael	J Trace Elem Med Biol (2012 Jun)	26 / 183-7	PubMed Citation
An HPLC-tandem mass spectrometry method for simultaneous detection of alkylated base excision repair ...	Mullins, Elwood A; Rubinson, Emily H; Pereira, Kevin N; Calcutt, M Wade; Christov, Plamen P; Eichman, Brandt F	Methods (2013 Nov)	64 / 59-66	PubMed Citation
An unprecedented nucleic acid capture mechanism for excision of DNA damage.	Rubinson, Emily H; Gowda, A S	Nature (2010 Nov 18)	468 / 406-11	PubMed Citation
Analysis of nucleotide insertion and extension at 8-oxo-7,8-dihydroguanine by replicative T7 polymer ...	Prakash; Spratt, Thomas E; Gold, Barry; Eichman, Brandt F	Biochemistry (1997 May 27)	36 / 6475-87	PubMed Citation
Analysis of unsaturated compounds by Ag <sup>+</sup> coordination ionspray mass spectrometry: studies of the for ...	Furge, L L; Guengerich, F P	J Am Soc Mass Spectrom (2003 Aug)	14 / 872-80	PubMed Citation
Assays of plasma dehydrocholesteryl esters and oxysterols from Smith-Lemli-Opitz syndrome patients.	Seal, Jennifer R; Havrilla, Christine M; Porter, Ned A; Hachey, David L	J Lipid Res (2013 Jan)	54 / 244-53	PubMed Citation
Assembly Dynamics and Stoichiometry of the Apoptosis Signal-regulating Kinase (ASK) Signalosome in R ...	Liu, Wei; Xu, Libin; Lamberson, Connor R; Merkens, Louise S; Steiner, Robert D; Elias, Ellen R; Haas, Dorothea; Porter, Ned A	Mol Cell Proteomics (2016 Jun)	15 / 1947-61	PubMed Citation

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Base-Displaced Intercalated Conformation of the 2-Amino-3-methylimidazo[4,5-f]quinoline N(2)-dG DNA ...	Stavros, Kallie M; Hawkins, Edward K; Rizzo, Carmelo J; Stone, Michael P	Chem Res Toxicol (2015 Jul 20)	28 / 1455-68	PubMed Citation
Base-displaced intercalated structure of the food mutagen 2-amino-3-methylimidazo[4,5-f]quinoline in ...	Wang, Feng; DeMuro, Nicholas E; Elmquist, C Eric; Stover, James S; Rizzo, Carmelo J; Stone, Michael P	J Am Chem Soc (2006 Aug 9)	128 / 10085-95	PubMed Citation
Base-displaced intercalation of the 2-amino-3-methylimidazo[4,5-f]quinolone N2-dG adduct in the NarI ...	Stavros, Kallie M; Hawkins, Edward K; Rizzo, Carmelo J; Stone, Michael P	Nucleic Acids Res (2014 Mar)	42 / 3450-63	PubMed Citation
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Biochemical basis of genotoxicity of heterocyclic arylamine food mutagens: Human DNA polymerase eta ...	Choi, Jeong-Yun; Stover, James S; Angel, Karen C; Chowdhury, Goutam; Rizzo, Carmelo J; Guengerich, F Peter	J Biol Chem (2006 Sep 1)	281 / 25297-306	PubMed Citation
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Carcinogen-nucleic acid interactions: equilibrium binding studies of aflatoxin B1 with the oligodeox ...	Gopalakrishnan, S; Byrd, S; Stone, M P; Harris, T M	Biochemistry (1989 Jan 24)	28 / 726-34	PubMed Citation
Catalysis of catechol oxidation by metal-dithiocarbamate complexes in pesticides.	Fitsanakis, Vanessa A; Amarnath, Venkataraman; Moore, Joshua T; Montine, Kathleen S; Zhang, Jing; Montine, Thomas J	Free Radic Biol Med (2002 Dec 15)	33 / 1714-23	PubMed Citation
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Double mutation at the subunit interface of glutathione transferase rGSTM1-1 results in a stable, functional enzyme	Thompson, Lawrence C; Walters, John; Burke, Jonathan; Parsons, James F; Armstrong, Richard N; Dirr, Heini W	Biochemistry (2006 Feb 21)	45 / 2267-73	PubMed Citation
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